

This listing of claims replaces all prior versions, and listings of claims in the application:

LISTING OF THE CLAIMS

1. (currently amended) A computerized method for ~~adding debugging statements to~~ a computer source code having a plurality of lines of code comprising:

creating a separate computer source code to hold an annotated source code;

setting a verbosity level to a predetermined level;

traversing through said computer source code by reading and analyzing a portion of said computer source code from a start to an end of said computer source code one portion of said computer source code at a time, said reading and analyzing comprising:

reading said portion of said computer source code, said portion of said computer source code comprising executable statements and comments;~~and~~

determining if said portion of said computer source code comprises an executable statement;;

writing said executable statement to said annotated source code if said portion of said computer source code comprises said executable statement;;

reading said verbosity level to determine desired content for said annotated source code;

constructing an output statement comprising said desired content for said executable statement according to said verbosity level, said output statement further comprising commands that write said desired content to a log file;~~at least an indicator of the location of said executable statement within said source code, and~~

writing said output statement to said annotated source code;
and

repeating said steps of reading and analyzing said portion of
said computer source code on a next portion of said computer
source code until said end of said computer source code is reached;
causing said annotated source code to be executed in place of said
computer source code such that said annotated source code operation is
recorded in said log file; and
evaluating said log file to find problems with said computer source code.

2. (currently amended) The method of claim 17 wherein said indicator of the location of said executable statement comprises:
 - a file name of said source code; and
 - a line number of said portion of said source code.
3. (original) The method of claim 1 wherein said computer source code is used with a compiler.
4. (original) The method of claim 1 wherein said computer source code is used with an interpreter.
5. (currently amended) The method of claim 17 wherein said output statement further comprises at least a portion of said executable statement.
6. (currently amended) The method of claim 17 wherein said output statement further comprises at least one variable name and at least one variable value.
7. (currently amended) The method of claim 17 wherein said output statement further comprises a function name.
8. (currently amended) The method of claim 1 wherein said ~~traversing~~reading
and analyzing of said portion of said computer source code further comprises:

determining if said portion of said computer source code comprises a comment;

analyzing said comment to determine that said comment contains an embedded verbosity level statement defining an embedded verbosity level;
and

setting said verbosity level to ~~the~~said embedded verbosity level defined in said embedded verbosity level statement.

9. (currently amended) A computer program ~~for adding~~that assists debugging ~~statements to~~of a computer source code having a plurality of lines of code comprising:

a first routine ~~for creating~~that creates a separate computer source code to hold an annotated source code;

a second routine ~~capable of setting~~that sets a verbosity level to a predetermined level;

a third routine ~~for traversing~~that traverses through said computer source code ~~by reading and analyzing~~and reads and analyzes a portion of said computer source code from a start to an end of said computer source code one portion of said computer source code at a time, said reading and analyzing comprising:

a first subroutine that reads~~reading~~ said portion of said computer source code, said portion of said computer source code being comprised of~~comprising~~ executable statements and comments;~~and~~

a second subroutine that determines if said portion of said computer source code is comprised of~~comprises~~ an executable statement;

a third subroutine that writes~~writing~~ said executable statement to said annotated source code if said portion of said computer source code comprises said executable statement;

a fourth subroutine that reads said verbosity level to determine desired context for said annotated source code;

a fifth subroutine that constructsconstructing an output statement comprised of said desired content for said executable statement according to said verbosity level, said output statement further comprised of commands that write said desired content to a log file;comprising at least an indicator of the location of said executable statement within said source code, and

a sixth subroutine that writeswriting said output statement to said annotated source code; and

a seventh subroutine that repeats said reading and analyzing of said portion of said computer source code on a next portion of said computer source code until said end of said computer source code is reached; and

wherein said annotated source code may be executed in place of said computer source code such that said annotated source code operation is recorded in said log file and said log file may be evaluated to find problems with said computer source code.

10. (currently amended) The computer program of claim 19 wherein said indicator of the location of said executable statement comprises:

a file name of said source code; and

a line number of said portion of said source code.

11. (original) The computer program of claim 9 wherein said computer source code is used with a compiler.

12. (original) The computer program of claim 9 wherein said computer source code is used with an interpreter.

13. (currently amended) The computer program of claim 19 wherein said output statement further comprises at least a portion of said executable statement.

14. (currently amended) The computer program of claim 19 wherein said output statement further comprises at least one variable name and at least one variable value.

15. (currently amended) The computer program of claim 19 wherein said output statement further comprises a function name.

16. (currently amended) The computer program of claim 9 wherein said ~~traversing~~reading and analyzing of said portion of said computer source code further comprises:

an eighth subroutine that determines if said portion of said computer source code comprises a comment;

a ninth subroutine that analyzes~~analyzing~~ said comment to determine ~~that if~~ said comment contains an embedded verbosity level statement defining an embedded verbosity level; and

a tenth subroutine that sets~~setting~~ said verbosity level to ~~the~~said embedded verbosity level defined in said embedded verbosity level statement.

17. (new) The method of claim 1 wherein said output statement is comprised of at least an indicator of the location of said executable statement within said computer source code.

18. (new) The method of claim 1 further comprising:

updating said computer source code to correct said problems with said computer source code;

deleting said annotated source code;

performing said computerized method for debugging said computer source code on said updated computer source code such that a new annotated source code is created, executed and evaluated; and

repeating until said computer source code operation is deemed satisfactory.

19. (new) The computer program of claim 9 wherein said output statement is comprised of at least an indicator of the location of said executable statement within said computer source code.